FIG.1

AUTHOR: TAMINORI TOMITA
NATIONALITY: JAPAN
BORN IN: 1969
DIED IN:

[ABSTRACT]

[OBJECT]
TO PROVIDE A TECHNOLOGY WHICH IS CAPABLE OF PREVENTING UNFAIR USE OF DIGITAL CONTENTS

[SOLVING MEANS]
A DIGITAL CONTENTS UNFAIR USE PREVENTING METHOD WHICH PREVENTS UNFAIR USE OF DIGITAL CONTENTS COMPRISING THE STEPS OF:
PRESETTING INFORMATION ON THE STATE TO CONTROL THE PLAYBACK PROCESSING OF THE DIGITAL CONTENTS IN INTEREST; AND
DEPENDING UPON THE VALUE OF SAID PRESET STATE INFORMATION, CONTROLLING THE PLAYBACK PROCESSING OF THE DIGITAL CONTENTS IN INTEREST

101

SIGNATORY INFORMATION: CN=Tomita Taminori, O=Hitachi, C=JP
VERIFICATION RESULT: OK

102

FIG.2

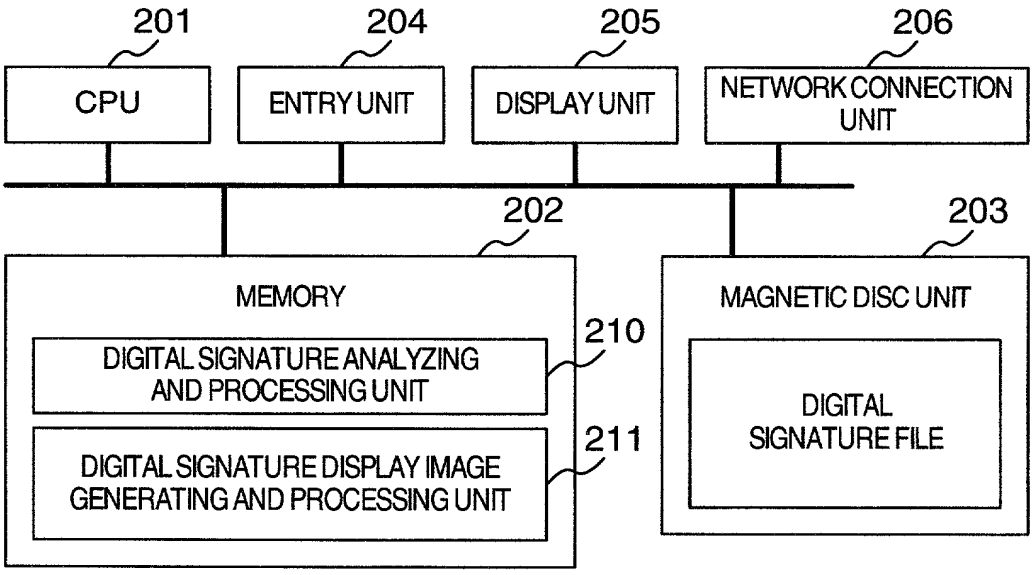

FIG.3

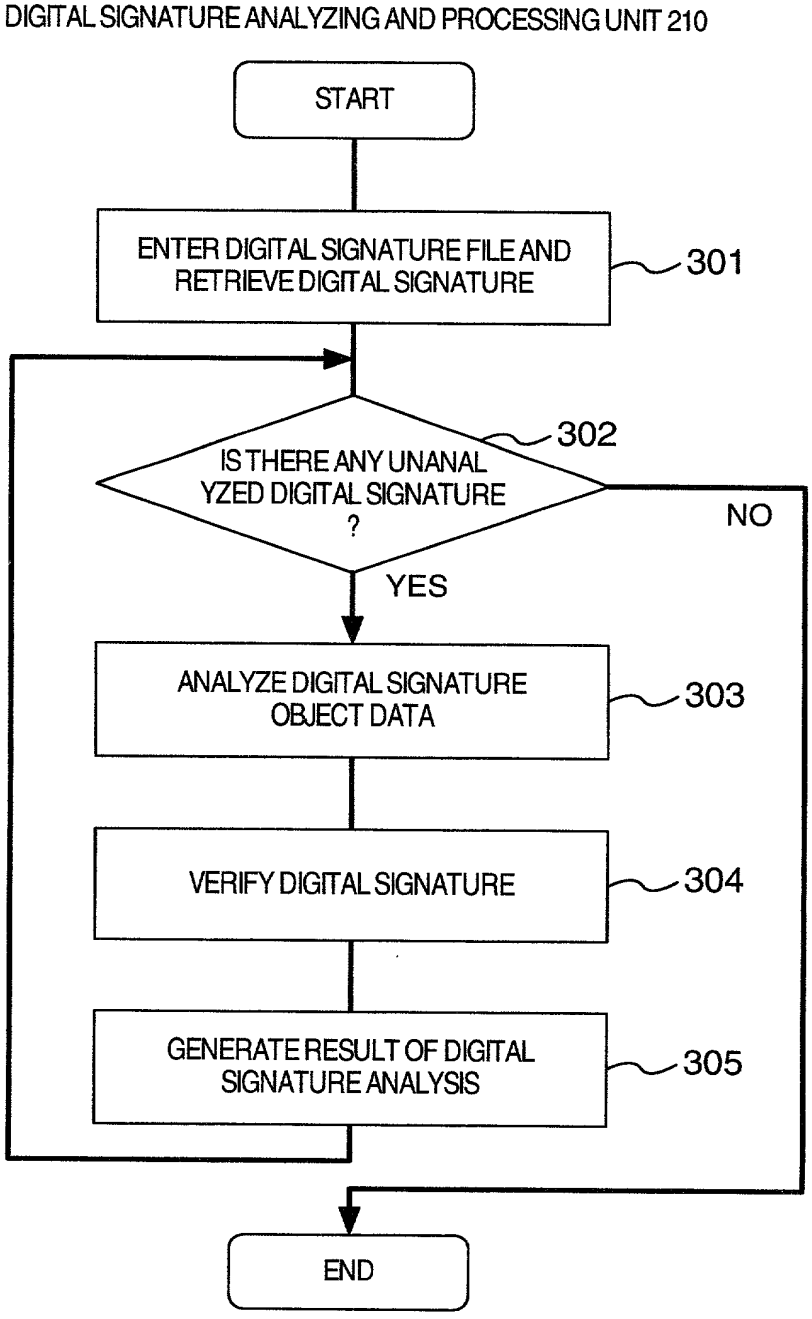
DIGITAL SIGNATURE ANALYZING AND PROCESSING UNIT 210
START
ENTER DIGITAL SIGNATURE FILE AND RETRIEVE DIGITAL SIGNATURE
301
IS THERE ANY UNANAL YZED DIGITAL SIGNATURE ?
302
NO
YES
ANALYZE DIGITAL SIGNATURE OBJECT DATA
303
VERIFY DIGITAL SIGNATURE
304
GENERATE RESULT OF DIGITAL SIGNATURE ANALYSIS
305
END

FIG.4

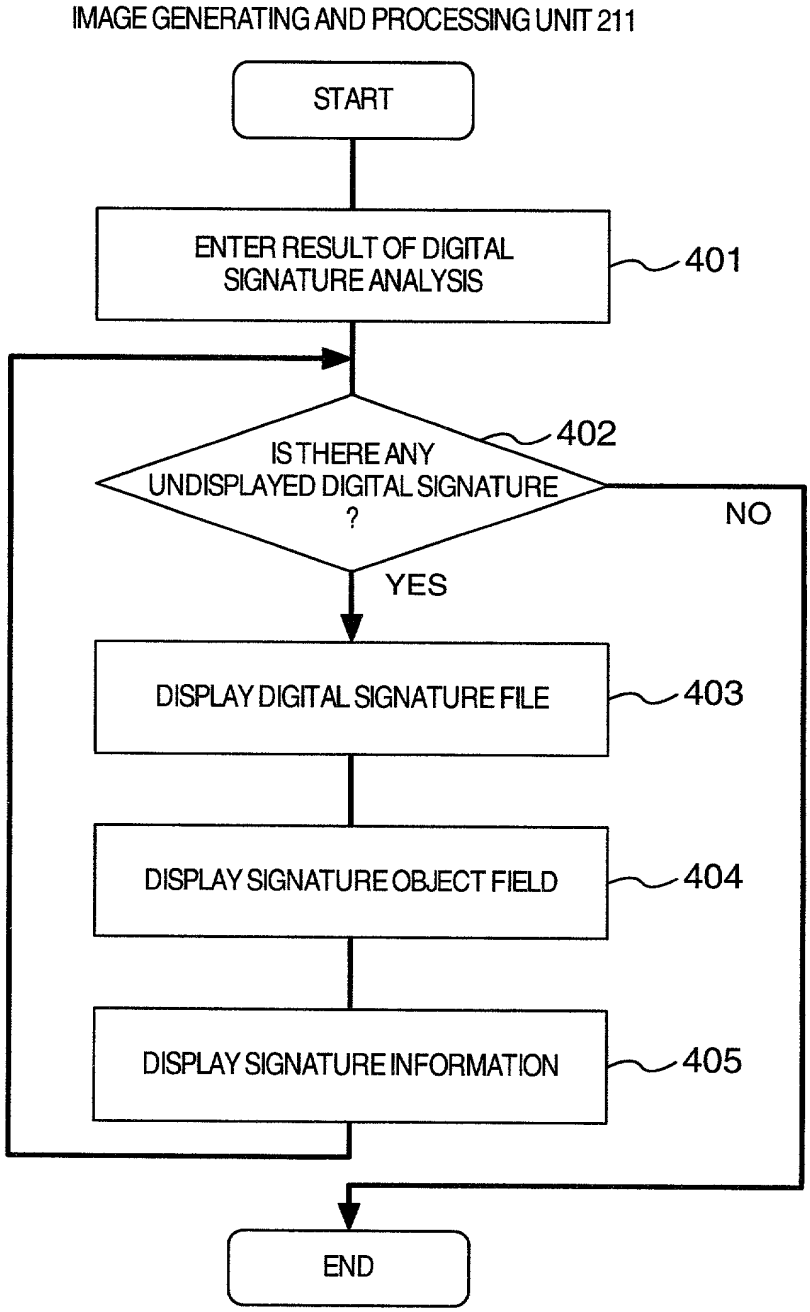
IMAGE GENERATING AND PROCESSING UNIT 211
START
ENTER RESULT OF DIGITAL SIGNATURE ANALYSIS
401
IS THERE ANY UNDISPLAYED DIGITAL SIGNATURE ?
402
NO
YES
DISPLAY DIGITAL SIGNATURE FILE
403
DISPLAY SIGNATURE OBJECT FIELD
404
DISPLAY SIGNATURE INFORMATION
405
END

FIG.5

dsign.xml

```
001 〈document〉
002   〈Signature〉                                    501
003     〈SignedInfo〉
004       〈SignatureMethod Algorithm="http://・・・"/〉
005       〈Reference IDREF="ALL"〉
006         〈DigestMethod Algorithm="http://・・・"/〉
007         〈DigestValue Encoding="・・・"〉
008           WfKRfGWiAni9bY9k/sXgBFt4ge4=
009         〈/DigestValue〉
010       〈/Reference〉
011     〈/SignedInfo〉
012     〈SignatureValue〉
013       MCwCFB0M62xrrxMGm7qfBt8R+Zv4YulAhRvQHIDkgAdtnDQIOYOg07srWhaiA==
014     〈/SignatureValue〉
015     〈KeyInfo〉
016       〈X509Date〉
017         〈X509Name〉 CN=Tomita Taminori, O=Hitachi, C=JP 〈/X509Name〉
018         〈X509Certificate〉
019 tLKJqNhJznnUvkqZQ2oe+6slauIJ8cw7yALDZJhzfFIhHzALBgcqhkjooAQDBQADLwAwLAIUZUJD〉
020         〈/X509Certificate〉
021       〈/X509Date〉
022     〈/keyInfo〉
023   〈/Signature〉
024   〈Object ID="ALL"〉
025     〈Object Id="author"〉
026       〈author〉
027         〈last-name〉 Tomita 〈/last-name〉
028         〈first-name〉 Taminori 〈/first-name〉
029         〈nationality〉 Japan 〈/nationality〉
030         〈year-of-birth〉 1969 〈/year-of-birth〉
031         〈year-of-death〉 ---- 〈/year-of-death〉
032       〈/author〉
033     〈/Object〉
034     〈Object Id="tilte"〉
035       〈title〉[ABSTRACT]〈/title〉
036       〈lines〉
037         〈line〉[OBJECT]
038         〈line〉TO PROVIDE A TECHNOLOGY WHICH IS CAPABLE OF PREVENTING UNFAIR
              USE OF DIGITAL CONTENTS 〈/line〉
039         〈line〉[SOLVING MEANS]〈/line〉
040         〈line〉A DIGITAL CONTENTS UNFAIR USE PREVENTING METHOD WHICH PREVENTS
              UNFAIR USE OF DIGITAL CONTENTS COMPRISING THE STEPS OF: 〈/line〉
041         〈line〉PRESETTING INFORMATION ON THE STATE TO CONTROL THE PLAYBACK
              PROCESSING OF THE DIGITAL CONTENTS IN INTEREST; AND 〈/line〉
042         〈line〉DEPENDING UPON THE VALUE OF SAID PRESET STATE INFORMATION, 〈/line〉
043         〈line〉CONTROLLING THE PLAYBACK PROCESSING OF THE DIGITAL CONTENTS IN
              INTEREST 〈/line〉
044       〈/lines〉
045     〈/Object〉
046   〈/Object〉
047 〈/document〉
```

FIG.6

#	DIGITAL SIGNATURE FILE NAME	SIGNATORY INFORMATION	DIGITAL SIGNATURE OBJECT DATA FILE NAME	SIGNATURE OBJECT DATA IDENTIFIER	SIGNATURE VERIFICATION RESULT
1	dsign.xml	CN=Tomita Taminori, O=Hitachi, C=JP	dsign.xml	ALL	OK

FIG.7

AUTHOR: TAMINORI TOMITA
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[ABSTRACT]

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FIG.8

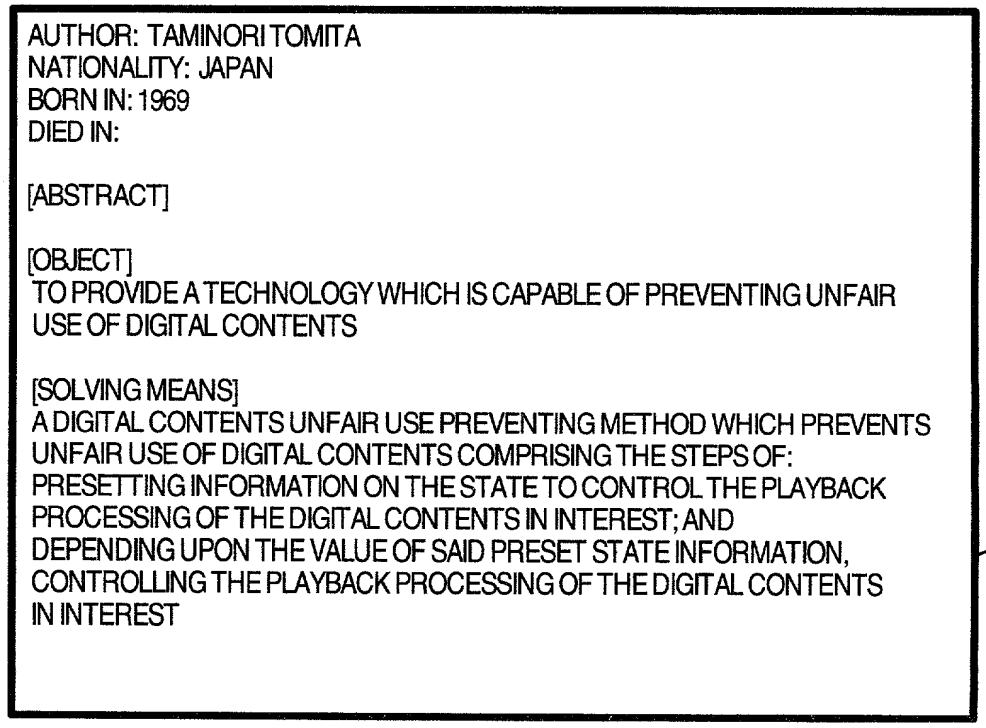


FIG.9

dsign2.xml

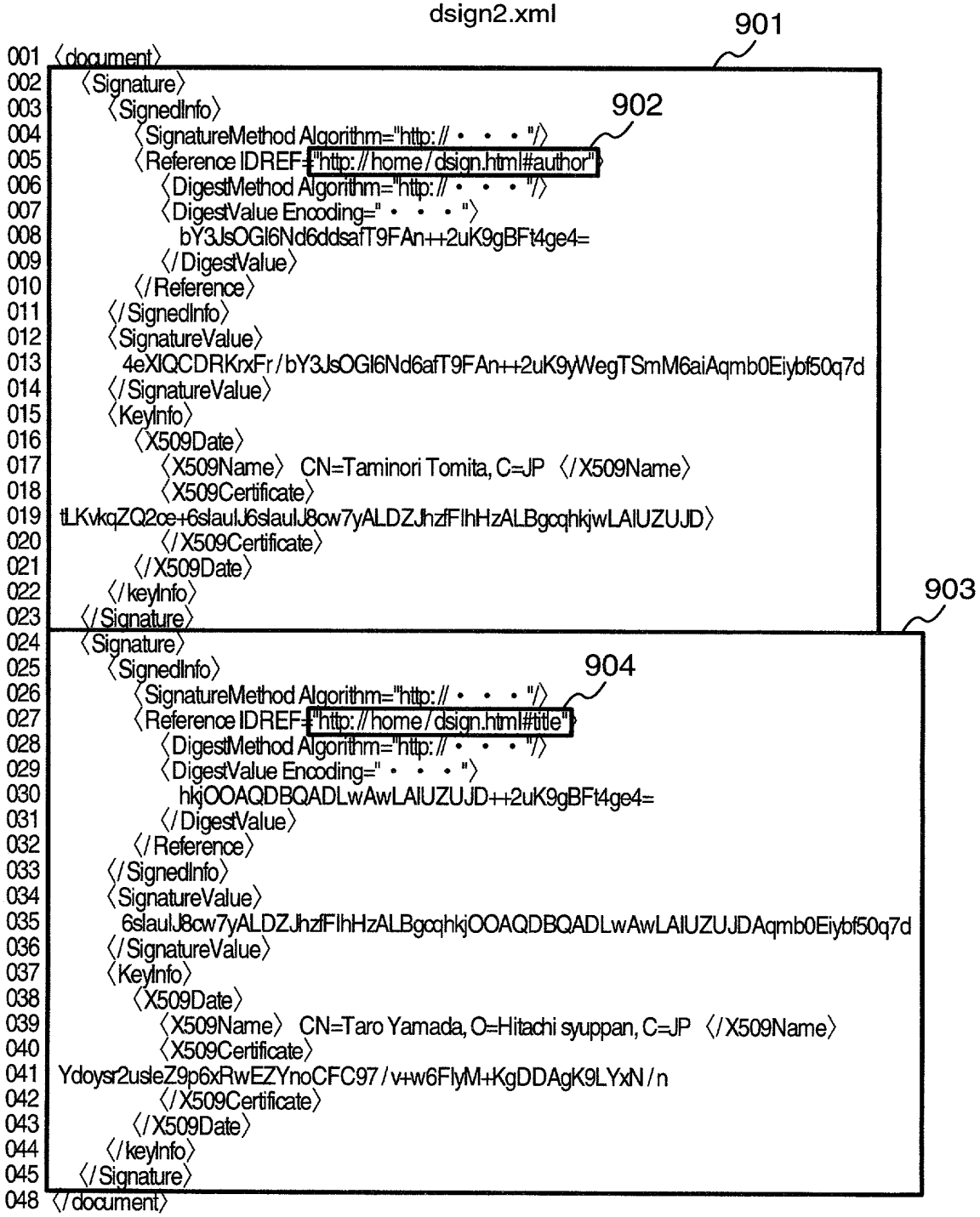
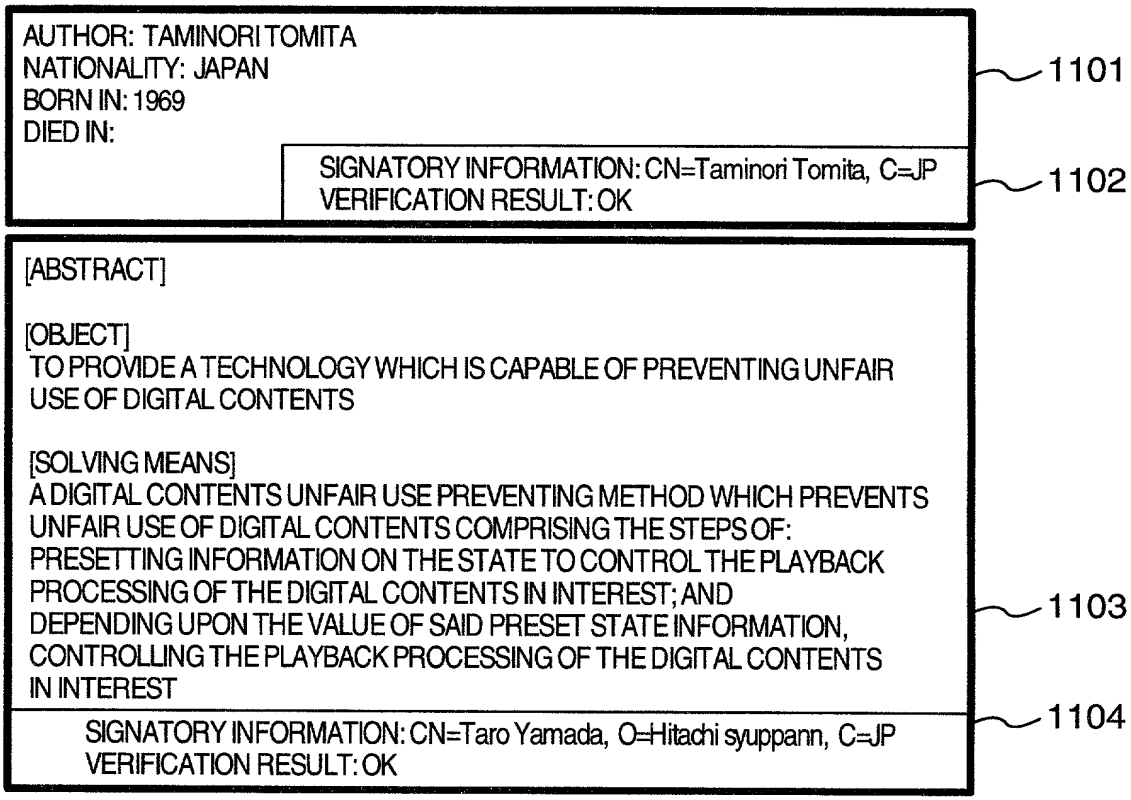


FIG.10

	#	DIGITAL SIGNATURE FILE NAME	SIGNATORY INFORMATION	DIGITAL SIGNATURE OBJECT DATA FILE NAME	SIGNATURE OBJECT DATA IDENTIFIER	SIGNATURE VERIFICATION RESULT
1001	1	dsign2.xml	CN=Taminori Tomita, C=JP	dsign.html	http:// home /dsign.html#auther	OK
1002	2	dsign2.xml	CN=Taro Yamada, O=Hitachi syuppann, C=JP	dsign.html	http:// home /dsign.html#title	OK

FIG.11


AUTHOR: TAMINORI TOMITA
NATIONALITY: JAPAN
BORN IN: 1969
DIED IN:
SIGNATORY INFORMATION: CN=Taminori Tomita, C=JP
VERIFICATION RESULT: OK
[ABSTRACT]
[OBJECT]
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SIGNATORY INFORMATION: CN=Taro Yamada, O=Hitachi syuppann, C=JP
VERIFICATION RESULT: OK
1101
1102
1103
1104

FIG.12

dsign3.xml

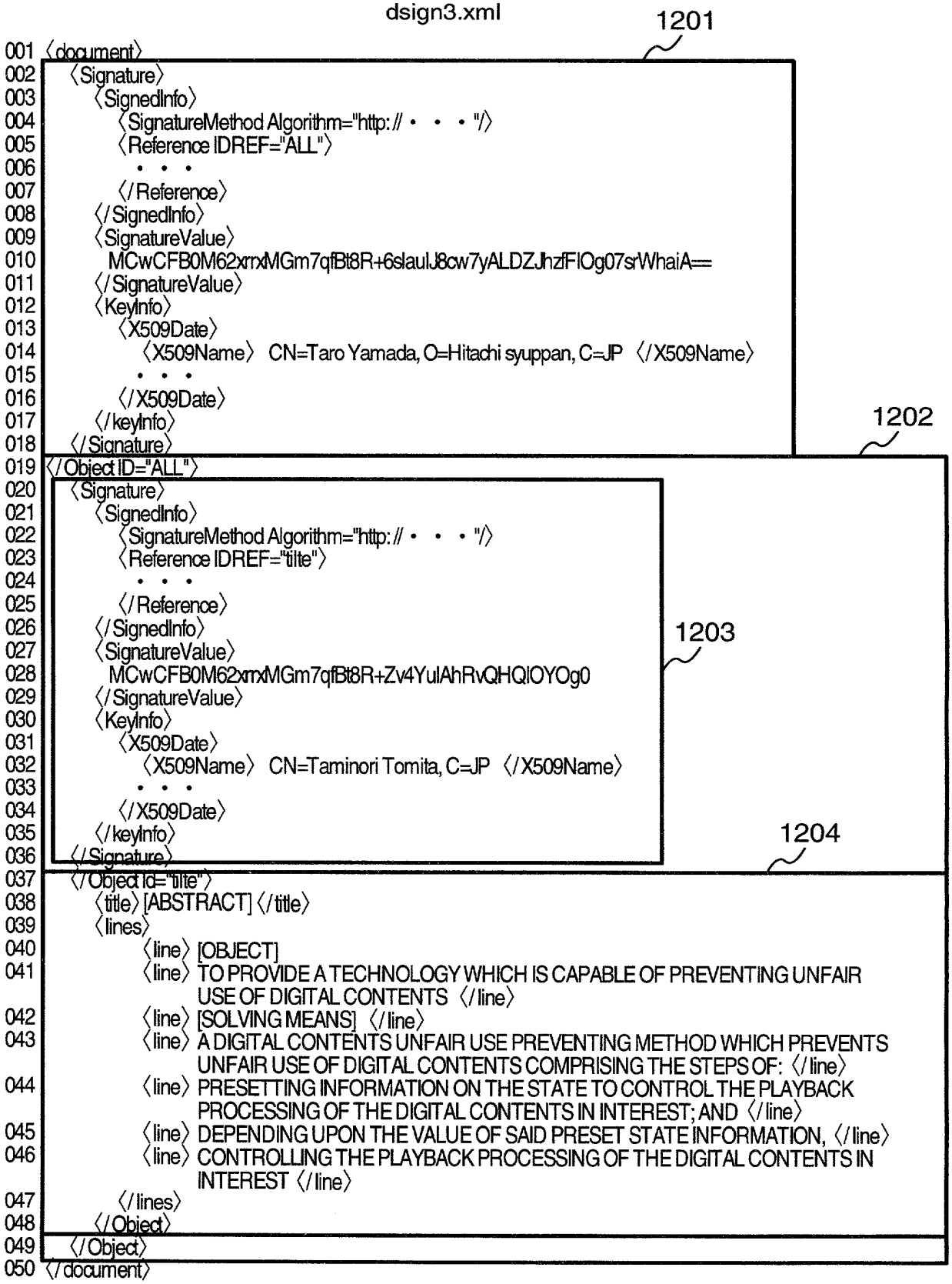
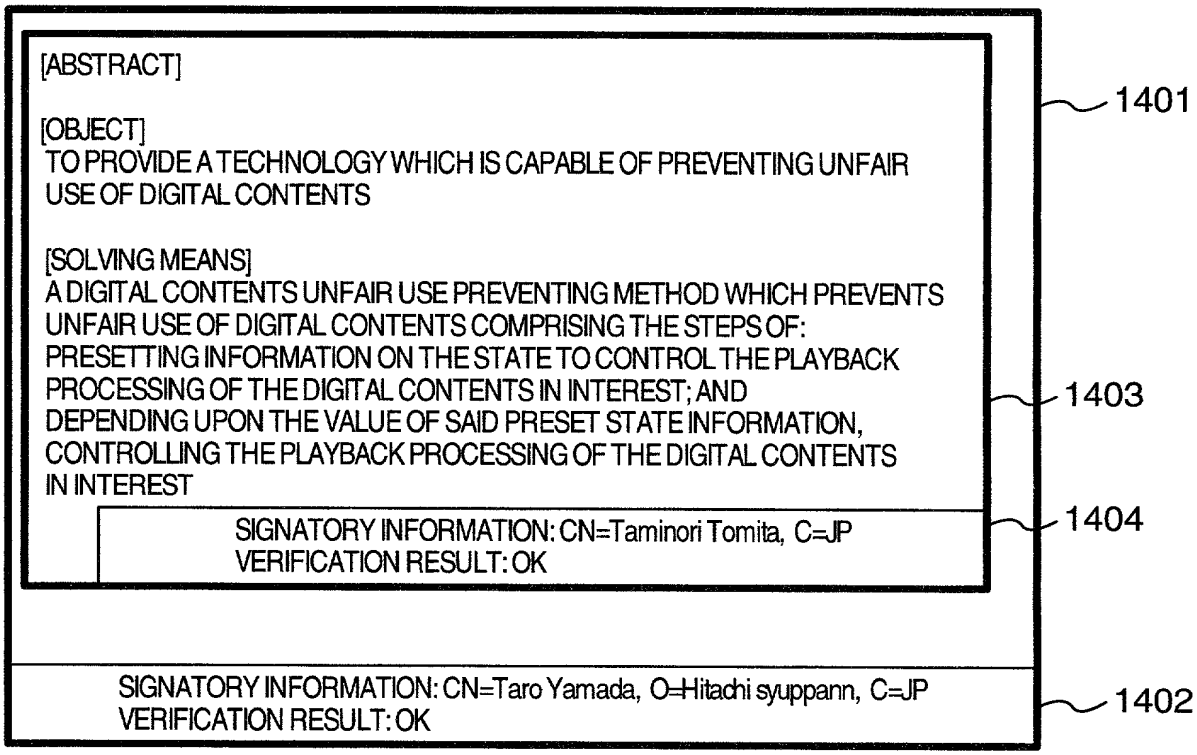


FIG.13

	#	DIGITAL SIGNATURE FILE NAME	SIGNATORY INFORMATION	DIGITAL SIGNATURE OBJECT DATA FILE NAME	SIGNATURE OBJECT DATA IDENTIFIER	SIGNATURE VERIFICATION RESULT
1301	1	dsign3.xml	CN=Taro Yamada, O=Hitachi syuppann, C=JP	dsign3.html	ALL	OK
1302	2	dsign3.xml	CN=Taminori Tomita, C=JP	dsign3.html	title	OK

FIG.14


[ABSTRACT]
[OBJECT]
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SIGNATORY INFORMATION: CN=Taminori Tomita, C=JP
VERIFICATION RESULT: OK
SIGNATORY INFORMATION: CN=Taro Yamada, O=Hitachi syuppann, C=JP
VERIFICATION RESULT: OK
1401
1403
1404
1402